

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 111111	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/ZA 03/00112	International filing date (day/month/year) 15 August 2003 (15.08.2003)	(Earliest) Priority Date (day/month/year) 28 January 2003 (28.01.2003)
Applicant VAN DER MEULEN GJSBERT EIMERT		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (See Box II).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is the only Figure No.: _____

☒ as suggested by the applicant.

☐ None of the figures.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

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International application No.
PCT/ZA 03/00112-0

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

In most households the electrical geyser is one of the major electricity consumers. This patent provides an alternative method of heating a fluid typically water, only using electricity while water is flowing. The invention provides a method of heating a fluid which includes the step of passing said fluid along a flow passage (14) defined within a tubular electrically resistive heating element (12). An effective and electricity saving means for heating a fluid particularly water for industrial and/or domestic purposes is provided. A current regulator may be added to the heating element (12) to heat a fluid particularly water to a specific temperature for a specified flowrate.

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CLASSIFICATION OF SUBJECT MATTER

IPC⁷: F24H 1/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷: F24H 1/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

epodoc, wpi, fi cl txte, fi cl txtg

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0485211 B1 (PIFCO LTD.) 18 June 1997 (18.06.1997) <i>abstract, fig. 5.</i>	1,2
X	US 6128439 A (ADAR et al.) 3 October 2000 (03.10.2000) <i>abstract, fig. 1.</i>	1,2
X	DE 1690682 A (TRANS CONTINENTAL ELECTRONICS CORP.) 9 June 1971 (09.06.1971)	1,2
X	NL 8502047 A (SIERS LEIDINGEN- EN MONTAGEPROJECTEN BV) 16 February 1987 (16.02.1987) <i>figs. 1,2.</i>	1,2

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

„A“ document defining the general state of the art which is not considered to be of particular relevance

„E“ earlier application or patent but published on or after the international filing date

„L“ document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

„O“ document referring to an oral disclosure, use, exhibition or other means

„P“ document published prior to the international filing date but later than the priority date claimed

„T“ later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

„X“ document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

„Y“ document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

„&“ document member of the same patent family

Date of the actual completion of the international search
24 September 2003 (24.09.2003)

Date of mailing of the international search report
24 March 2004 (24.03.2004)

Name and mailing address of the ISA/AT
Austrian Patent Office
Dresdner Straße 87, A-1200 Vienna
Facsimile No. 1/53424/535

Authorized officer
BABUREK G.
Telephone No. 1/53424/352

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/ZA 03/00112-0

Patent document cited in search report			Publication date		Patent family member(s)		Publication date	
EP	A	523987			DE	T	69215991T	1997-05-22
					US	A	5329388	1994-07-12
					EP	A	0523987	1993-01-20
					DE	D	69215991D	1997-01-30
					JP	A	5019285	1993-01-29
US	A	5321789	1994-06-14		JP	A	4127136	1992-04-28
					JP	A	4313737	1992-11-05
US	A	5959711	1999-09-28		EP	A	0747738	1996-12-11
					JP	A	9005745	1997-01-10
WO	A	20020068			none			
		65						